Ubiquitin-Like Modifier-Activating Enzyme ATG7 (ATG7) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Ubiquitin-like modifier-activating enzyme ATG7 (ATG7), Recombinant Protein
Full Product Name	Recombinant Cryptococcus neoformans var. neoformans serotype D Ubiquitin-like modifier-activating enzyme ATG7 (ATG7), partial
Product Gene Name	ATG7 recombinant protein
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	73,352 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for P0CM39
Species	Cryptococcus neoformans var. neoformans serotype D (strain B-3501A) (Filobasidiella neoformans)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ATG7 recombinant protein	MBS1251190 is a recombinant protein targeting ATG7. Also known as Recombinant Cryptococcus neoformans var. neoformans serotype D Ubiquitin-like modifier-activating enzyme ATG7 (ATG7), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ATG7 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATG7. It may not necessarily be applicable to this product.

NCBI GI #	134114524
NCBI GeneID	4937519
NCBI Accession #	XP_774092.1
UniProt Primary Accession #	P0CM39
UniProt Secondary Accession #	Q55NS2; Q5KC57
UniProt Related Accession #	ZP_01761356
GenBank Nucleotide #	XM_768999.1
NCBI Official Full Name	hypothetical protein CNBH0170
NCBI Official Symbol	CNBH0170

UniProt Protein Name	Ubiquitin-like modifier-activating enzyme ATG7
UniProt Synonym Protein Names	ATG12-activating enzyme E1 ATG7; Autophagy-related protein 7
Protein Family	Ubiquitin-like modifier-activating enzyme
UniProt Gene Name	ATG7
NCBI Protein Information	hypothetical protein
UniProt Comments for ATG7	E1-like activating enzyme involved in the 2 ubiquitin-like systems required for cytoplasm to vacuole transport (Cvt) and autophagy. Activates ATG12 for its conjugation with ATG5 and ATG8 for its conjugation with phosphatidylethanolamine. Both systems are needed for the ATG8 association to Cvt vesicles and autophagosomes membranes. Autophagy is essential for maintenance of amino acid levels and protein synthesis under nitrogen starvation. Required for selective autophagic degradation of the nucleus (nucleophagy) as well as for mitophagy which contributes to regulate mitochondrial quantity and quality by eliminating the mitochondria to a basal level to fulfill cellular energy requirements and preventing excess ROS production. Plays a role in the regulation of filamentous growth and chronological longevity ().
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